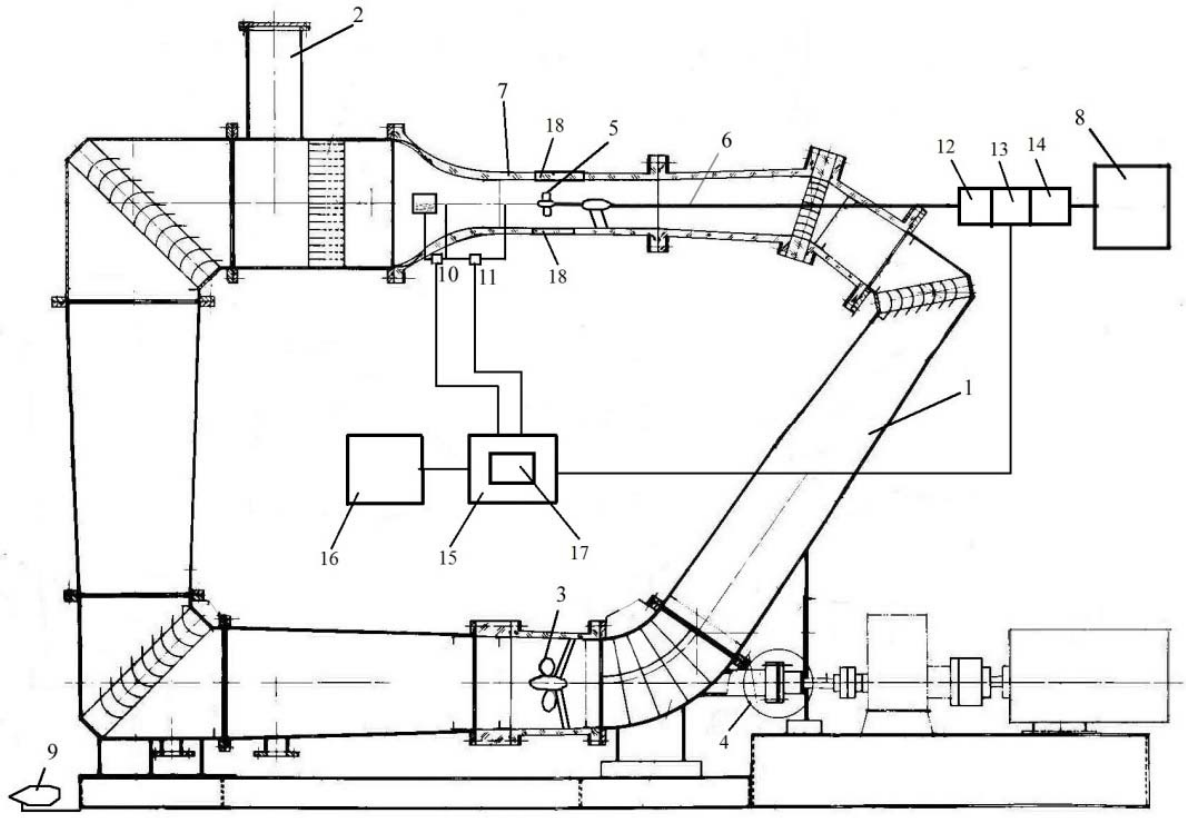
Name of organization *Krylov State Research Centre*	**Year of information updating** *2016*
Year established *1894*	**Year of joining the ITTC** *1955*
Address *196158 St. Petersburg, Russia, 44, Moskovskoye shosse.*	**Status in the ITTC** *member organization*
Contact details (phone, fax, e-mail) *phone: +7 (812) 415-49-41* *fax: +7 (812) 415-49-41* *e-mail: 10_otd@ksrc.ru*	**Website** *www.krylov-center.ru*

Type of facility *Cavitation tunnel*	**Year constructed / upgraded** *1956/1976*
Name of facility *Medium Cavitation Tunnel*	**Location** —

Main characteristics (dimensions of tank/basin/test section; for simulators: full mission, part task or desk top)
Length of test section – 1.6 m, Diameter of test section – 0.68 m, for simulators: full mission

Drawings of facility



1 - case; 2 - trunk; 3 - impeller; 4 - the impeller electric motor; 5 - propeller model; 6 - the shaft of model of a propeller; 7 - test section; 8 - the electric motor of model of a propeller; 9 - vacuum pump; 10, 11, 12, 13 - the test instrumentation; 14 - the detector of revolutions; 15 - control console; 16, 17 - collection and data processing system; 18 - stroboscope

Detailed characteristics (carriages, wave/current/wind generators, instrumentations, etc.)

Instrumentations: *Three-components a propeller dynamometer;*
Dynamometer for a dual-purpose nozzle.

Water flow velocity in test section: 2 ÷ 13 m/s;

Propeller speed: ±50 1/s;
Max diameter of tested propellers: 0.24 m;

Minimum cavitation index: 0.2;

Applications (Tests performed)

1. *Determination of hydrodynamic & cavitation characteristics of CP & FP propellers.*
2. *Evaluation of erosion resistance of propellers, prediction of propeller cavitation erosion and levels of its severity.*
3. *Model test of ducted propellers and propulsion systems based on ventilated waterjet units at full-scale cavitation numbers.*
4. *Test of propeller models on inclined shaft.*

Published description (Publications on this facility)

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